PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER A	CTION	See Form PCT/IPEA/416					
International application No.	International filing da	te (day/month/year)	Priority date (day/month/year)					
PCT/EP2004/0031		, , , , , , ,	28.03.2003					
			20.03.2003					
International Patent Classification (IPC) or national classification and IPC								
Applicant								
BASF AKTIENGESE	T T CCUA EM							
DASE ARTIENGESE	TIPCUAL I							
	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists o	fatotal of 5	sheets, including	g this cover sheet.					
3. This report is also accom	panied by ANNEXES, comprising:							
a. Sent to the a	pplicant and to the International Bu	manu) a tatal as 2	sheets, as follows:					
1 (32.11.12.11.12.11.12.11.11.11.11.11.11.11			mended and are the basis for this report and/or					
sheets of Instruction	containing rectifications authorized	by this Authority (see Rul	le 70.16 and Section 607 of the Administrative					
			siders contain an amendment that goes beyond					
the disc	the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
b. (sent to the Ir								
o (sent to the 17	nernational Bureau only) a total of	(indicate type and number	r of electronic carrier(s))					
, containing a sequence listing and/or tables								
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indic	cations relating to the following iter	ms:						
Box No. I	Basis of the report							
Box No. II	Priority							
Box No. III	Non-establishment of opinion with	regard to novelty, invent	ive step and industrial applicability					
Box No. IV	Lack of unity of invention							
	•	35(2) with record to nove	Ity inventive step or industrial applicability					
Box No. V	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI	Box No. VI Certain documents cited							
Box No. VII	Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application								
Date of submission of the demand		Date of completion of th	is report					
			•					
Name and mailing address of the I	PEA/EP	Authorized officer						
Facsimile No.		Telephone No.						

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International application No.
PCT/EP2004/003104

Box	No. I	Basis of the report					
1.		regard to the language, this report is based on the internation ated under this item.	al application in the language in	which it was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:						
		international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.4)					
		international preliminary examination (Rule 55.2 and/o	or 55.3)				
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
	\square	the international application as originally filed/furnished the description:					
	لاس	•		on opinimally 61-4/6inter-4			
		pages 1-9	managed broats As at a New	as originally filed/furnished			
		pages*					
		pages*	received by this Authority on				
	\bowtie	the claims:					
		nos.		as originally filed/furnished			
		nos.*	as amended (togethe	r with any statement) under Article 19			
		nos.* <u>1-14</u>	received by this Authority on	/filed with the demand			
		nos.*	received by this Authority on				
	\boxtimes	the drawings:					
		sheets 1/1		as originally filed/furnished			
		sheets*	received by this Authority on				
		sheets*	received by this Authority on				
		a sequence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence I	isting.			
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.					
		any table(s) related to sequence listing (specify):		· · · · · · · · · · · · · · · · · · ·			
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fi	-	•			
		the description, pages		•			
		the claims, nos. the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
]f it	em 4 applies, some or all of those sheets may be marked "sup					

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		statement under Article 35(2) with re and explanations supporting such stat	ent under Article 35(2) with regard to novelty, inventive step or industrial applicability; lanations supporting such statement		
1.	Statement				
	Novelty (N)	Claims	1-14	YES	
		Claims		NO	
	Inventive step (IS)	Claims		YES	
		Claims	1-14	NO	
	Industrial applicabil	ity (IA) Claims	1-14	YES	
		Claims		NO	
l					

- 2. Citations and explanations (Rule 70.7)
 - 1) Reference is made to the following documents:

D1: US-A-5 269 980

D2: DE-A-2 233 428.

- The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claim 1 does not involve an inventive step within the meaning of PCT Article 33(3).
- 2.1) Document D1 is considered the prior art closest to the subject matter of claim 1. It discloses (column 2, lines 50-66 and column 4, lines 1-4) a method for producing polymer particles wherein the polymerisation takes place in a spray reactor. The method is characterized in that a liquid starting solution containing monomers and a polymer catalyst is prepared (it is possible, but not necessary, to prepare the starting solution with prepolymerised monomers), the starting solution is transferred to the aerosol generator for the production of droplets,

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

these droplets are nebulised in a thermal reactor and

the droplets are allowed to dwell in the thermal reactor for a period which suffices for the monomers to polymerise and to solidify.

Condensation polymerisation is one of the possible polymerisation methods cited.

The subject matter of claim 1 therefore differs from the known document D1 in that a defined condensation product (resin) is produced and the condensation is carried out using at least one aldehyde.

The problem to be solved by the present invention is therefore understood to be that of disclosing a method and the reactants necessary for the production of condensed resins in powder form, wherein the condensation is intended to take place in a spray reactor.

Document D2 discloses (page 1, lines 7-10 and page 3, lines 18-24) a reactive system which spontaneously polymerises in a spray reactor. As examples of the reactive system an aqueous urea formaldehyde solution and an aqueous melanin formaldehyde solution are given. A person skilled in the art would use this information in order to produce, for example, a formaldehyde resin in powder form using the method disclosed in document D1.

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The solution proposed in claim 1 of the present application can therefore not be considered inventive (PCT Article 33(3)).

- The same argument applies correspondingly to independent claim 13. The subject matter of claim 13 therefore does not involve an inventive step (PCT Article 33(3)).
- Dependent claims 2-12 and 14 contain no features which, combined with the features of any claim to which they refer, meet the PCT requirements for novelty and inventive step. The features of these claims concern only some of several obvious possibilities from which a person skilled in the art would choose according to the circumstances, without thereby being inventive.